

# PATENT ABSTRACTS OF JAPAN

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(54) VIRTUAL COMPUTER CONTROLLING SYSTEM

(57)Abstract:

PURPOSE: To enable the saving and restoration of a virtual computer source at a high speed by providing a saving memory enabling a high speed access in which control information or the like can be saved restoring the control information from the saving memory designated by a virtual computer number and operating a status transition between the virtual computers.

CONSTITUTION: When a command and an interruption which can not be processed in a virtual computer state are recognized during the operation of a virtual computer 1 (VM1) a virtual computer control program which is the source of the virtual computer 1 reads out the content of PSW(Program Status Word) or the like in a central processing unit 1 stores it in a VM1 saving area of a saving memory 5. After the completion of the saving the source saved in the HYPER area of the saving memory 5 is read in the central processing unit 1 and restored to a corresponding register or the like. An address is designated by a virtual

computer number and virtual computer source offset 6 for the saving and restoration of each source in the saving memory 5. Thus the saving and restoration of the virtual computer source can be operated without performing access to a master storage unit and the status transition is operated at the high speed.